

AMENDMENTS TO THE CLAIMS

1. – 13. (Canceled)

14. (Original) An apparatus comprising:  
a sensor for acquiring an electromagnetic physiological signal;  
a signal processing circuit in communication with the sensor; and  
a processor in communication with the signal processing circuit and configured to support multiple threads of execution with one thread being a measurement module and a second thread being a source reconstruction module.

15. (Original) The apparatus of claim 14, and further comprising a display showing source reconstruction results overlayed onto anatomical data.

16. (Original) The apparatus of claim 14, wherein the sensor acquires MEG data.

17. (Original) The apparatus of claim 14, wherein the sensor acquires EEG data.

18. (Original) The apparatus of claim 14, wherein the sensor acquires ECG data.

19. (Original) The apparatus of claim 14, wherein the sensor acquires MCG data.

20. (Previously amended) A method of testing comprising:  
acquiring an electromagnetic physiological signal;  
performing a source reconstruction of the electromagnetic physiological signal; and  
using the source reconstruction to modify the acquisition of a new electromagnetic physiological signal.